

ABSTRACT OF THE DISCLOSURE

Systems and methods for generating and verifying an electronic document with embedded digital signatures. When an electronic document is generated, signature blocks are included that are used to store corresponding digital signatures. When each digital signature is generated, some of the attributes of the signature blocks are filled such that the digital signature references these attributes, such as a timestamp. Each signature block also includes a reconstruct attribute that is used when the electronic document and/or the digital signature is validated through reconstruction. Other signature blocks do not require a reconstruct attribute. During reconstruction, some data is removed from the electronic document such that the data is identical to a previous state. The reconstructed document is hashed and the hash result is compared with the decrypted digital signature. The electronic document and/or the digital signature is validated or verified if the hash result matches the decrypted digital signature.

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